

FIG. 1

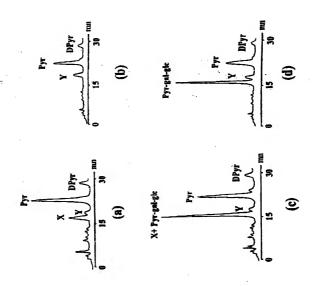


FIG. 3

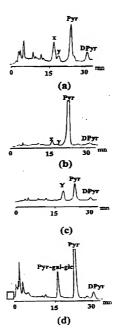
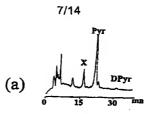
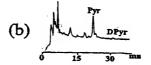


FIG. 4

Hydrolysis time	time	5 hours	10 hours	15 hours	20 hours
Tissue:					
Bone	-				
	7				
Synovial	-	105%	94%	54%	37%
	2	72%	26%	64%	24%
Cartilage	-	%9	2%	1%	1%
	7	4%	2%	7%	1%

Iydrolysis time	ш	5 hours	10 hours	15 hours	20 hours	
Fissue:						
Bone	1	%95	33%	78%	24%	
	7	%55	44%	34%	29%	
Synovial	_	16%	12%	12%	12%	
	7	%6	10%	%6	%6	
Cartilage	-	,	•			
	7					





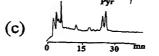
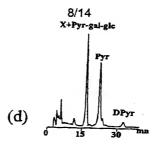
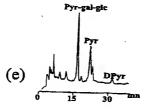
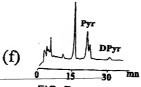


FIG. 7







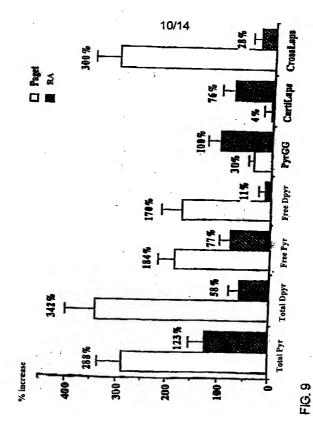
Pyr-gal-gle

FIG. 7 Cont'd.

~			Total Pyr (nm	ole/nmole Cr)	Total Pyr (nmole/nmole Cr) Pree Pyr (nmole/nmole Cr)	e/amele Cr)		(nmole/n	(nmole/nmole Cr)
Subjects.	-	Age	Pyr	d-Pyr	d-Pyr Pyr D-Pyr Pyr-Gal-Gle CartiLans CrossLans	D-Pyr	Pyr-Gal-Gle	Cartifana	CrossLans
Pre-menopausal 28 35.7 ± 2.8 women	8	35.7 ± 2.8	28.5 ± 4.1	F1 ∓ 6'S	13.4 ± 2.7	3,3 ± 0,9	4.5 ± 1.0	6.2 ± 0.9	126 ± 27
Post-menopaussi 20 55.3 ± 2.4 34.8 ± 9.5 ·· 7.6 ± 2.6 wonnen	20	55.3 ± 2.4	34.8 ± 9.5	7.6 ± 2.6	15.6 ± 3.7	3,7 ± 0.9	4.8 ± 1.7	7.5 ± 2.8	281 ± 100
Controls	ę	45.5 ± 10.3	40 45.5±10.3 31.6±7.9 6.7±2.2 14.5±3.4 3.5±0.9	6.7 ± 2.2	14.5 ± 3.4	3,5 ± 0.9	1	6.9 ± 2.2	203 ± 106
Rheamatoid arthritis	22	56.2 ± 11.9*	27 56.2 ± 11.9" 72.2 ± 51.8"	19.8 ± 7.6"	26.3 ± 15.0*	4.0 ± 2.3*	9.6 ± 5,9*	12.4 ± 8.5°	266±187*
Paget's disease	2		125.8 ± 53,6"	31.2 ± 13.5*	125.8 ± 53.6" 31.2 ± 13.5" (2.1 ± 15.4" 10.2 ± 5.1"	10,2 ± 5,1*	6.1 ± 1.9	7.2 ± 2.9	834 ± 352"

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* Statistical significance (Anova) p < 0.05 of the difference compared with control group.



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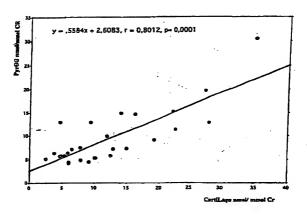


FIG. 10

	п	Pyr-Gal-Glc	CartiLaps
		(nmole/mmole Cr)	(nmole/mmole Cr)
Controls	40	4.7 ± 1.4	6.9 ± 2.2
Rheumatoid arthritis (RA)	27	9.6 ± 5.9*	12.4 ± 8.5*
Destructive RA	12	12.2 ± 7.4*	16.5 ± 10.0*
Non destructive RA	15	7.5 ± 3.2*	9.2 ± 5.4**
4 4			

* Statistical significance (T-test) p < 0.001 ** Statistical significan

Tibio-femoral space	-0.50*
Womac	0.50*
Lequesne	0.42*
	Pyr-Gal-Glc * p < 0.01

	Narrowing	errowing of joint line	Bone erosion	rosion	Total	Total score
Progression	YES (n=27)	NO (n=84)	YES (n=41)	NO (n=70)	YES (n=54)	NO (u=57)
Urinary Pyr-Gal-Gle (nmole/nmole creatinine)	8.8	7.2	9.3*	6.5	8.8**	6.3

Statistical significance of difference compared with group with no progress * p = 0.03; ** p = 0.05